

BACHELOR OF SCIENCE/ BACHELOR OF BUSINESS

Effective from: 2022

Approved Abbreviation: BSc/BBus

Western Sydney University Program Code: 4748

AQF Level: 7

CRICOS Code: 089207E

This program applies to students who commenced in 2022 or later.

Students should follow the program structure for the session start date relevant to the year they commenced.

For commencement year 2020, please refer to: 4748.3 Bachelor of Science/Bachelor of Business (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=4748.3>)

For commencement year 2018, please refer to: 4748.2 Bachelor of Science/Bachelor of Business (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=4748.2>)

For commencement year 2016, please refer to: 4748.1 Bachelor of Science/Bachelor of Business (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=4748.1>)

The Bachelor of Science/Bachelor of Business double degree program allows graduates to span both the commercial and scientific worlds in a way that single degree graduates cannot. This double degree permits students to undertake multi-skilling, and offers diverse career paths providing high marketability in multiple areas of expertise. Graduates will have a solid grounding in a core science discipline from a range of majors including Biology, Data Science, Ecology, Zoology, Environmental Health, Mathematics, and Forensic Chemistry. This qualification in science is combined with one of the following majors from the Bachelor of Business: Applied Finance, Economics, Hospitality Management, Human Resource Management, International Business, Management, Marketing, and Sport Management. Graduates will be equipped to work as scientists with a good understanding of business principles and practices. Alternatively, as Business graduates, they will be well-prepared to work in science-based industries and institutions.

Study Mode

Four years full-time

Program Advice

Program Advice (<https://directory.westernsydney.edu.au/search/email/science@westernsydney.edu.au>)

Prospective students should visit the following websites for general enquiries about this program.

Enquire about this program (<https://enquiry.westernsydney.edu.au/courseenquiry/>) | Local Admission (<https://www.westernsydney.edu.au/future/>) | International Admission (<https://www.westernsydney.edu.au/international/home/apply/admissions/>) |

Location

| Campus | Attendance | Mode | Advice |
|---------------------|------------|----------|-----------|
| Campbelltown Campus | Full Time | Internal | See above |
| Hawkesbury Campus | Full Time | Internal | See above |

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|-----------------------------------|-----------|----------|-----------|
| Parramatta Campus - Victoria Road | Full Time | Internal | See above |
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Accreditation

- The Bachelor of Science (Chemistry) is accredited by The Royal Australian Chemical Institute (RACI).
- Testamur Major T038 - Applied Finance satisfies the educational requirements for membership of the Financial Services Institute of Australasia (Finsia).
- Testamur Major T041 - Human Resource Management (including online) is accredited with the Australian Human Resources Institute (AHRI).
- Testamur Major T044 - Marketing satisfies the educational requirements for recognition as a Certified Practising Marketer and eligibility for membership of the Australian Marketing Institute (AMI).

Association to Advance Collegiate Schools of Business (AACSB)

The business component of this program is accredited by the Association to Advance Collegiate Schools of Business (AACSB).

Work Integrated Learning

Western Sydney University seeks to enhance student learning experiences by enabling students to engage in the culture, expectations and practices of their profession or discipline. This program includes a placement or other community-based unpaid practical experience.

There is a mandatory work component required for completion of this program. Please contact the Program Advisor listed above for information.

International students should also refer to the link below for more information and a link to the Commonwealth Register of Institutions and Courses for Overseas Students (CRICOS).

Work Integrated Learning (WIL) for international students (https://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/international_student_support/working_in_australia/work_integrated_learning/)

For the Science degree, work integrated learning is a component of many units in the core of the course and testamur majors. Students must study to a specific work integrated learning unit, Complex Case Studies in Science. This unit is designed to provide students with opportunities for personal development, industry and civic engagement and to develop career readiness. The unit assures that students can critically analyse and logically argue complex scientific issues whilst taking into account multiple competing perspectives and builds on employability and communication skills developed in earlier units.

Admission

Eligibility for admission to the Bachelor Science/Bachelor of Business is based on the following requirements

- Bachelor of Science assumed knowledge: At least two units of Biology, Chemistry, Mathematics, Physics at HSC level.
- Bachelor of Business assumed knowledge: HSC Mathematics and any two units of HSC English.

Applications from Australian and New Zealand citizens and holders of permanent resident visas may be made via the Universities Admissions Centre (UAC) or directly through the Western Portal. Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

<http://www.uac.edu.au/>
<https://westernsydney.uac.edu.au/ws/>

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to the University should also use the information provided on the UAC website.

International students currently completing an Australian Year 12 in or outside Australia, an International Baccalaureate in Australia or a New Zealand National Certificate of Educational Achievement (NCEA) level 3 must apply via UAC International.

<http://www.uac.edu.au/>

All other International applicants must apply directly to the University via the International Office.

International students applying to the University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their website.

International Office (<http://www.westernsydney.edu.au/international/>)

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and Western Sydney University.

Program Structure

Qualification for this award requires the successful completion of 320 credit points as prescribed in the structure below.

Students who complete this award will graduate with a Bachelor of Science with the selected testamur major, and a Bachelor of Business.

Students should note that core subjects will be allocated based on the Testamur Major chosen and as indicated in the relevant testamur major sequence.

To complete some of the components within this program, students may be required to travel between Western Sydney University campuses in order to complete their subjects.

Science Component

Students should note that core subjects will be allocated based on the Testamur Major chosen and as indicated in the relevant testamur major sequence.

| Subject | Title | Credit Points |
|--|------------------------|---------------|
| Bachelor of Science core units | | |
| Students are required to complete the following two Subjects | | |
| CHEM 1008 | Introductory Chemistry | 10 |
| NATS 1019 | Scientific Literacy | 10 |
| Foundation (depending on testamur major selected): | | |
| Select two of the following: | | 20 |
| BIOS 1012 | Cell Biology | |
| BIOS 1001 | Biodiversity | |
| CHEM 1012 | Essential Chemistry | |
| Mathematics (depending on testamur major selected): | | |
| Select one of the following: | | 10 |
| MATH 1026 | Quantitative Thinking | |
| MATH 1014 | Mathematics 1A | |

| | | |
|---|---|----|
| MATH 1003 | Biometry | |
| Analytical Science (depending on testamur major selected): | | |
| Select one of the following: | | 10 |
| MATH 2001 | Advanced Calculus | |
| BIOS 2042 | Biochemistry | |
| NATS 2019 | Forensic and Environmental Analysis | |
| NATS 2042 | Science Research Methods | |
| CHEM 2001 | Analytical Chemistry | |
| PUBH 2010 | Epidemiology | |
| Work Integrated Learning (depending on testamur major selected): | | |
| Select one of the following: | | 10 |
| NATS 3044 | Complex Case Studies in Science | |
| NATS 3045 | Work Internship for Science Professionals | |
| NATS 3045 is only available to students in T076 Environmental Health | | |
| Core Capstone (depending on testamur major selected): | | |
| Select one of the following: | | 10 |
| NATS 3027 | Laboratory Quality Management | |
| NATS 3015 | Field Project 1 | |
| BIOS 3012 | Conservation Biology | |
| NATS 3040 | Topics in Medical Science | |

Bachelor of Science Testamur Majors

Students must choose one of the following testamur majors:

- Agrifood, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/agrifood-ug-testamur-major/>)
- Animal Science, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/animal-science-ug-testamur-major/>)
- Applied Physics, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/applied-physics-ug-testamur-major/>)
- Biology, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/biology-ug-testamur-major/>)
- Chemistry, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/chemistry-ug-testamur-major/>)
- Innovative Foods, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/innovative-foods-ug-testamur-major/>)
- Sustainable Environmental Futures, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/sustainable-environmental-futures-ug-testamur-major/>)
- Zoology, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/zoology-ug-testamur-major/>)

Please note that not all Testamur Majors are available at all campuses.

Business Component

Core Subjects (compulsory 40 credit points)

The four compulsory core subjects that provide students with essential business knowledge are:

| Subject | Title | Credit Points |
|-----------|-----------------------------------|---------------|
| LAWS 1001 | Enterprise Law | 10 |
| BUSM 1010 | Financing Enterprises | 10 |
| BUSM 1006 | Enterprise Innovation and Markets | 10 |

| | | |
|----------------------------|-----------------------|-----------|
| BUSM 1008 | Enterprise Leadership | 10 |
| Total Credit Points | | 40 |

Professional Subjects (choose 40 credit points)

The professional subjects provide a focus on careers. Students are required to complete one subject from each of the four key focus areas: numeracy, career planning, innovation, and enterprise engagement, a total of 40 credit points. Students are advised to choose subjects that will support careers in one of three areas:

- Money (for majors in Applied Finance, Economics),
- Markets (for majors in Hospitality Management, International Business, Marketing, and Sport Management),
- Management (for majors in Human Resource Management, and Management).

The professional subjects that are recommended for each of the Bachelor of Business testamur majors are specified in the majors.

Majors (choose 80 credit points from one primary Business major. These are testamur majors)

Students are required to complete eight major core subjects from one of the following primary Business majors.

Majors for Careers in Money

Applied Finance, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/applied-finance-ug-testamur-major/>)

Economics, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/economics-ug-testamur-major/>)

Majors for Careers in Markets

International Business, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/international-business-ug-testamur-major/>)

Marketing, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/marketing-ug-testamur-major/>)

Sport Management, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/sport-management-ug-testamur-major/>)

Majors for Careers in Management

Human Resource Management, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/human-resource-management-ug-testamur-major/>)

Management, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/management-ug-pg-testamur-major/>)

Majors for Careers in Business Analytics

Business Analytics, Testamur Major (<https://hbook.westernsydney.edu.au/majors-minors/business-analytics-ug-testamur-major/>)

Recommended Sequence

Use the links to each Bachelor of Business Major to see the Core, Professional and Major subjects required. Students should follow the recommended sequence below and not the recommended sequence listed under each Bachelor of Business Major.

This progression pattern is highly recommended. Students' progress through both degrees at the same pace, completing two subjects in each degree in each semester. Graduation after three years with

either degree will be possible only if a student makes this decision at or before the end of Year 2 and amends their progression pattern as prescribed by an Academic Program Advisor.

To complete some of the components within this program, students may be required to travel between Western Sydney University campuses in order to complete their subjects.

Students choosing the Applied Physics testamur major should consult the Academic Program Advisor for advice regarding unit sequences.

Full-time start-year intake

| Course | Title | Credit Points |
|--|---|---------------|
| Year 1 | | |
| Autumn session | | |
| Select B Bus core subject 1 | | 10 |
| Select B Bus core subject 2 | | 10 |
| BIOS 1001 | Biodiversity | 10 |
| CHEM 1008 | Introductory Chemistry | 10 |
| Credit Points | | 40 |
| Spring session | | |
| Select B Bus core subject 3 | | 10 |
| Select B Bus core subject 4 | | 10 |
| Select one core Science Mathematics subject (depending on testamur major selected) | | 10 |
| MATH 1026 | Quantitative Thinking | |
| MATH 1014 | Mathematics 1A | |
| MATH 1003 | Biometry | |
| Select one core Science Foundation subject (depending on testamur major selected) | | 10 |
| BIOS 1012 | Cell Biology | |
| CHEM 1005 | Essential Chemistry 2 | |
| Credit Points | | 40 |
| Year 2 | | |
| Autumn session | | |
| Select B Bus professional subject 1 | | 10 |
| Select B Bus major subject 1 | | 10 |
| Select two core Science subjects comprising: | | |
| One Analytical Science subject (depending on testamur major selected) | | 10 |
| MATH 2001 | Advanced Calculus | |
| BIOS 2042 | Biochemistry | |
| NATS 2019 | Forensic and Environmental Analysis | |
| NATS 2042 | Science Research Methods | |
| CHEM 2001 | Analytical Chemistry | |
| PUBH 2010 | Epidemiology | |
| Select the following: | | |
| NATS 1019 | Scientific Literacy | 10 |
| Credit Points | | 40 |
| Spring session | | |
| Select B Bus professional subject 2 | | 10 |
| Select B Bus major subject 2 | | 10 |
| Select one core Science Work Integrated learning subject of the following: | | 10 |
| NATS 3045 | Work Internship for Science Professionals | |
| NATS 3044 | Complex Case Studies in Science | |

| | |
|--|------------|
| Select one Science testamur major subject (see sequence provided with each testamur major). | 10 |
| Credit Points | 40 |
| Year 3 | |
| Autumn session | |
| Select B Bus major subject 3 | 10 |
| Select B Bus major subject 4 | 10 |
| Select one Science capstone subject (depending on testamur major chosen) | 10 |
| NATS 3027 Laboratory Quality Management | |
| NATS 3015 Field Project 1 | |
| BIOS 3012 Conservation Biology | |
| NATS 3040 Topics in Medical Science | |
| Select one Science testamur major subject (see sequence provided with each testamur major). | 10 |
| Credit Points | 40 |
| Spring session | |
| Select B Bus major subject 5 | 10 |
| Select B Bus major subject 6 | 10 |
| Select two Science testamur major subjects (see the sequence provided with each testamur major). | 20 |
| Credit Points | 40 |
| Year 4 | |
| Autumn session | |
| Select B Bus professional subject 3 | 10 |
| Select B Bus major subject 7 | 10 |
| Select two Science testamur major subjects (see the sequence provided with each testamur major). | 20 |
| Credit Points | 40 |
| Spring session | |
| Select B Bus professional subject 4 | 10 |
| Select B Bus major subject 8 | 10 |
| Select two Science testamur major subjects (see the sequence provided with each testamur major). | 20 |
| Credit Points | 40 |
| Total Credit Points | 320 |